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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|---------------|----------------------|-------------------------|------------------|
| 10/813,177 | 03/29/2004 | Wei Gu | 5199-178 | 5834 |
| 759 | 90 09/27/2006 | | EXAM | INER |
| Leslie Gladstone Restaino | | | FETTEROLF, BRANDON J | |
| Brown Raysman Millstein Felder & Steiner LLP | | | | |
| 163 Madison Avenue | | | ART UNIT | PAPER NUMBER |
| P.O. Box 1989 | | | 1642 | |
| Morristown, NJ 07962-1989 | | | DATE MAILED: 09/27/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|--|---|--|--|--|--|--|
| Office Action Summary | 10/813,177 | GU ET AL. | | | | |
| Onice Action Summary | Examiner | Art Unit | | | | |
| | Brandon J. Fetterolf, PhD | 1642 | | | | |
| The MAILING DATE of this communication app Period for Reply | pears on the cover sheet with the o | correspondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v. Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1)⊠ Responsive to communication(s) filed on 17 Ju | ulv 2006. | | | | | |
| • | action is non-final. | | | | | |
| | Since this application is in condition for allowance except for formal matters, prosecution as to the ments is | | | | | |
| closed in accordance with the practice under E | · | | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) <u>1-60</u> is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) 1-46,50-53,56,59 and 60 is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>47-49,54,55,57 and 58</u> is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | • | | | | |
| 8) Claim(s) are subject to restriction and/o | r election requirement. | | | | | |
| Application Papers | | • | | | | |
| 9) The specification is objected to by the Examine | ır. | • | | | | |
| 10) The drawing(s) filed on is/are: a) acc | | Examiner. | | | | |
| Applicant may not request that any objection to the | | • | | | | |
| Replacement drawing sheet(s) including the correct | ion is required if the drawing(s) is ob | jected to. See 37 CFR 1.121(d). | | | | |
| 11)☐ The oath or declaration is objected to by the Ex | caminer. Note the attached Office | Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: | priority under 35 U.S.C. § 119(a) |)-(d) or (f). | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the prior | | | | | | |
| application from the International Bureau | ı (PCT Rule 17.2(a)). | | | | | |
| * See the attached detailed Office action for a list | of the certified copies not receive | ed. | | | | |
| | | | | | | |
| Attachment(s) | | | | | | |
| Notice of References Cited (PTO-892) | 4) Interview Summary | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) B) Information Disclosure Statement(s) (PTO/SB/08) | Paper No(s)/Mail Da 5) Notice of Informal P | | | | | |
| Paper No(s)/Mail Date | 6) Other: | · ##*********************************** | | | | |
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DETAILED ACTION

Election/Restrictions

The Election filed on 7/17/2006 in response to the Restriction Requirement of 5/17/2006 has been entered. Applicant's election of Group VII, claims 47-49, 54-55 and 57-58, as specifically drawn to a method from identifying a modulator of Mdm2-HASUP interaction with traverse is acknowledged. However, because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

The restriction requirement is therefore deemed to be proper and is made FINAL.

Claims 1-60 are pending.

Claims 1-46, 50-53, 56 and 59-60 are withdrawn from consideration as being drawn to non-elected inventions.

Claims 47-49, 54-55 and 57-58 are currently under consideration.

Information Disclosure Statement

The Information Disclosure Statements filed on 1/07/2005, 1/14/2005 and 7/21/2006 are acknowledged. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. A signed copy of the IDS's are attached hereto.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 47-49, 54-55 and 57-58 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 47, 54 and 57 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See

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MPEP § 2172.01. The omitted steps are: a determining step which relates back to the preamble recited in the method.

Claims 47-49, 54-55 and 57-58 are rejected as vague and indefinite for reciting the term HAUSP as the sole means of identifying the claimed molecule. The use of laboratory designations only to identify a particular molecule renders the claims indefinite because different laboratories may use the same laboratory designations to define completely distinct molecules. The rejection can be obviated by amending the claims to specifically and uniquely identify HAUSP, for example, by SEQ ID NO. and function of HAUSP.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 49 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 49 is inclusive of a genus of antagonists.

The Written Description Guidelines for examination of patent applications indicates, "the written description requirement for a claimed genus may be satisfied through sufficient description of a representative number of species by actual reduction to practice, or by disclosure of relevant, identifying characteristics, i.e., structure or other physical characteristics and/or other chemical properties, by functional characteristics coupled with a known or disclosed correlation between function and structure, or by a combination of such identifying characteristics, sufficient to show applicant was in possession of the claimed genus." (Federal register, Vol. 66, No. 4, pages 1099-1111, Friday January 5, 2001, see especially page 1106 column 3) and (see MPEP 2164).

The specification teaches (paragraph 0104) that a "modulator of expression" may be any agent or combination of agents that that has an antagonistic (inhibitory) or agonistic (facilitatory) effect on expression of a specified protein. Thus, the specification teaches that the modulator may be an antagonist or agonist. The specification further teaches that the modulators of the present invention include any protein, polypeptide, peptide, nucleic acid (including DNA or RNA),

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antibody, Fab fragment, F(ab').sub.2 fragment, molecule, compound, antibiotic, and drug, and an agent reactive with a protein of interest (e.g., HAUSP) that induces or upregulates expression of that protein (paragraph 0104). Thus, while the specification modulators, e.g., agonists and antagonists, which may be identified using the instant method, the specification does not appear to be commensurate in scope with the instant claims which recite the genus of antagonists because the specification does not appear to teach or suggest any known or identified antagonists. A lack of adequate written description issue also arises if the knowledge and level of skill in the art would not permit one skilled in the art to immediately envisage the product claimed from the disclosed process. See, e.g., Fujikawa v. Wattanasin, 93 F.3d 1559, 1571, 39 USPQ2d 1895, 1905 (Fed. Cir. 1996) (a "laundry list" disclosure of every possible moiety does not constitute a written description of every species in a genus because it would not "reasonably lead" those skilled in the art to any particular species). Moreover, a description of a genus may be achieved by means of a recitation of a representative number of species falling within the scope of the genus or by describing structural features common the genus that "constitute a substantial portion of the genus." See University of California v. Eli Lilly and Co., 119 F.3d 1559, 1568, 43 USPQ2d 1398, 1406 (Fed. Cir. 1997): "A description of a genus of cDNAs may be achieved by means of a recitation of a representative number of cNDA, defined by nucleotide sequence, falling within the scope of the genus or of a recitation of structural features common to the members of the genus, which features constitute a substantial portion of the genus." The Federal Circuit has recently clarified that a DNA molecule can be adequately described without disclosing its complete structure. See Enzo Biochem, Inc. V. Gen-Probe Inc., 296 F.3d 1316, 63 USPQ2d 1609 (Fed. Cir. 2002). The Enzo court adopted the standard that the written description requirement can be met by "show[ing] that an invention is complete by disclosure of sufficiently detailed, relevant identifying characteristicsi.e., complete or partial structure, other physical and/or chemical properties, functional characteristics when coupled with a known or disclosed correlation between function and structure, or some combination of such characteristics. "Id. At 1324, 63 USPQ2d at 1613 (emphasis omitted, bracketed material in original).

The court has since clarified that this standard applies to compounds other than cDNAs. See University of Rochester v. G.D. Searle & Co., Inc., __F.3d__,2004 WL 260813, at *9 (Fed.Cir.Feb. 13, 2004). The instant specification fails to provide sufficient descriptive information, such as definitive structural or functional features that are common to the genus. That is, the specification

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provides neither a representative number of antagonists that encompass the genus of antagonists nor does it provide a description of structural features that are common to the antagonists. Since the disclosure fails to describe the common attributes or characteristics that identify members of the genus, and because the genus is highly variant, the disclosure is insufficient to describe the genus. Thus, one of skill in the art would reasonably conclude that the disclosure fails to provide a representative number of species to describe and enable the genus as broadly claimed.

Vas-Cath Inc. v. Mahurkar, 19USPQ2d 1111, clearly states "applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of the invention. The invention is, for purposes of the 'written description' inquiry, whatever is now claimed." (See page 1117.) The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed." (See Vas-Cath at page 1116). As discussed above, the skilled artisan cannot envision the detailed chemical structure(s) of the encompassed genus of antagonists, and therefore conception is not achieved until reduction to practice has occurred, regardless of the complexity or simplicity of the method of isolation.

Adequate written description requires more than a mere statement that it is part of the invention and reference to a potential method of isolating it. The compound itself is required. See Fiers v. Revel, 25 USPQ2d 1601 at 1606 (CAFC 1993) and Amgen Inc. v. Chugai Pharmaceutical Co. Ltd., 18 USPQ2d 1016.

One cannot describe what one has not conceived. See *Fiddes v. Baird*, 30 USPQ2d 1481 at 1483. In *Fiddes*, claims directed to mammalian FGF's were found to be unpatentable due to lack of written description for that broad class. The specification provided only the bovine sequence.

Applicant is reminded that *Vas-Cath* makes clear that the written description provision of 35 U.S.C. §112 is severable from its enablement provision (see page 1115).

Therefore, NO claim is allowed.

Kinzler et al. (US 5,720,903, 1997) teach a method for identifying compounds which interfere with the binding of human MDM2 to human p53 (column 33, Claim 1). Li et al. (Nature 2002; 416: 648-653) teach that the deubiquitination og p53 by HAUSP is an important pathay for p53 stabilization. Together, Kinzler et al. and Li et al. are considered to be the closest prior art.

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However, the references alone or in combination do not appear to teach or suggest a method of identifying an agent that is reactive with HAUSP/MDM2, wherein the agent is in the presence of both MDM2 and HAUSP. As such, claims 47-49, 54-55 and 57-58 appear to be free of the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon J. Fetterolf, PhD whose telephone number is (571)-272-2919. The examiner can normally be reached on Monday through Friday from 7:30 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brandon J Fetterolf, PhD

Patent Examiner

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JEFFREY SIEW

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